

Round 2 Management Actions Workshops

Categories of Management Actions for Integration Workshop

Management Action Category ¹	Types of Management Actions in this Category	
	ID ²	Title
Additional Floodplain and Reservoir Storage	MA-001	Enlarge existing transitory floodplain storage.
	MA-002	Construct new transitory floodplain storage.
	MA-003	Increase on-stream flood storage capacity by building new storage facilities.
	MA-004	Update/modify existing flood storage facilities.
	MA-005	Create new storage in existing reservoirs via dredging activities.
	MA-006	Increase flood control allocation by expanding existing, on-stream reservoirs.
	MA-007	Increase foothill and upper watershed storage.
	MA-008	Increase flood control allocation by using Spillway Surcharge.
	MA-009	Increase flood control allocation at existing reservoirs by building new, off-stream storage.
	MA-010	Increase flood control allocation at existing reservoirs by expanding existing off-stream storage.
Storage Operations	MA-011	Establish partnerships to coordinate flood management structure operations.
	MA-012	Increase flood management flexibility through modifications to the magnitude/timing of flood reservations in reservoirs.
	MA-013	Increase flood management flexibility through modifications to objective release schedules at flood management reservoirs.
	MA-014	Increase flood management flexibility by implementing conjunctive use programs at flood management reservoirs.
	MA-015	Increase flood management flexibility by using transitory storage.
Flood Protection System Modification	MA-016	Improve conveyance and facilitate habitat restoration by reducing flow constrictions.
	MA-017	Increase capacity of existing bypasses.
	MA-018	Modify existing weirs or overflows to improve flood system performance.
	MA-019	Construct new bypasses to improve flood system performance.
	MA-020	Construct new levees to expand existing system capability.
	MA-021	Raise levees to improve flood system performance.
	MA-022	Construct setback levees.
	MA-023	Construct ring levees.
	MA-024	Improve structural performance of existing levees.

¹ Management Action Categories listed in order as they appear in Draft Workshop Worksheet.

² ID is used to track management actions and do not indicate any ranking or importance.

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	New MAs Under Consideration	<ul style="list-style-type: none"> Construct closure structures. Remove and/or deauthorize levees. Construct training levees or levees that subdivide larger basins.
Operation & Maintenance	MA-029	Restore channel form and function to improve O&M and facilitate flood damage reduction.
	MA-030	Perform clearing and snagging within channels.
	MA-031	Perform dredging to remove sediment from channels.
	MA-032	Reuse excess materials derived from channel maintenance.
	MA-033	Develop regional vegetation management plans.
	MA-034	Improve administration of encroachment permits.
	MA-035	Improve administration and oversight of levee penetrations.
	MA-036	Improve interior drainage.
	MA-037	Protect vulnerable levees and banks through stabilization and erosion repairs.
	MA-038	Revise O&M manuals and inspection criteria to promote best maintenance practices that support multi-benefits of the flood system.
	MA-083	Effectively maintain and operate closure structures.
	New MAs Under Consideration	<ul style="list-style-type: none"> Develop and implement structure rehabilitation and repair program.
Floodplain Management	MA-025	Acquire floodplain property that can contribute to flood management system efficiency.
	MA-026	Manage municipal stormwater to provide regional or systemwide flood benefits.
	MA-028	Coordinate and streamline floodplain mapping to improve consistency of floodplain delineation and assessment of flood risk.
	MA-074	Increase flood risk awareness through outreach.
	MA-075	Provide technical assistance to local agencies for compliance and grant application assistance.
	MA-076	Assist in development of local flood management plan updates.
	MA-077	Improve awareness of Community Rating System insurance-rate adjusting program.

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	MA-078	Develop mandatory flood insurance programs that are consistent with the risk of flooding.
	MA-079	Increase public understanding of FEMA maps and policies.
	MA-080	Eliminate subsidies for structures that are repetitively damaged.
	New MA Under Consideration	<ul style="list-style-type: none"> Floodproof structures in the floodplain.
Disaster Preparedness & Flood Warning	MA-063	Coordinate flood response planning and clarify roles and responsibilities related to flood preparedness and emergency response.
	MA-064	Improve communication and public awareness of emergency response procedures and terminology.
	MA-065	Establish standard flood warning systems and procedures.
	MA-066	Improve stream gage network for forecasting purposes.
	MA-067	Implement advanced weather forecast-based operations to increase reservoir management flexibility.
	MA-068	Create systemwide levee instrumentation for early warning systems.
Flood Fighting, Emergency Response & Flood Recovery	MA-069	Protect critical infrastructure corridors from flood waters.
	MA-070	Expand the State's assistance to LMAs during flood emergencies.
	MA-071	Improve evacuation planning.
	MA-072	Develop a post-flood recovery plan for the Central Valley and Delta to improve the coordination and efficiency of post-flood public assistance.
	MA-073	Streamline the post-flood permitting process for flood system repairs.
	MA-081	Purchase and position flood fighting materials in preparation for a flood event.
	New MA Under Consideration	<ul style="list-style-type: none"> Integrate environmental compliance and mitigation into flood fighting.

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Ecosystem Restoration	MA-039	Reduce runoff through upper watershed management.
	MA-040	Improve quality and quantity of wetland habitat within the flood system.
	MA-041	Improve quality and quantity of riparian habitat in the flood system.
	MA-042	Improve natural riverine processes by removing un-natural hard points along channels
	MA-043	Develop hazardous waste and materials management protocols to identify, contain and remediate potential water quality hazards within floodplains.
	MA-044	Reoperate flood-control reservoirs to more closely approximate natural flow regimes.
	MA-045	Reduce the incidence of invasive species in the flood management system.
	MA-046	Remove barriers to fish passage within the flood system.
	MA-047	Set back levees to connect rivers to floodplains.
	MA-048	Reconnect floodplains to restore seasonal habitat.
	New MA Under Consideration	<ul style="list-style-type: none"> Facilitate natural sediment transport.
Permitting	MA-054	Develop regional and river-corridor conservation plans, or expand existing regional conservation plans (such as regional Habitat Conservation Plans and Natural Community Conservation Plans) to provide a more efficient and effective regulatory approval process for flood projects.
	MA-055	Develop regional advance mitigation strategies and networks of mitigation banks to meet the needs of flood and other public infrastructure projects.
	MA-056	Develop regional permitting approaches such as corridor management strategies (CMS).
	New MAs Under Consideration	<ul style="list-style-type: none"> Establish Memoranda of Understanding and/or management agreements between agencies to integrate project plans and permits. Expand the scope or use of the Small Erosion Repair Program for both existing and new projects. Develop a permitting handbook for flood management projects.

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Policy & Regulations	MA-049	Encourage compatible land uses with flood management system and floodplain function.
	MA-050	Establish clear triggers or policy for updating flood management-related General Plan elements and other local flood management plan(s).
	MA-051	Update State's designated floodway program.
	MA-052	Use Building Code amendments to reduce consequence of flooding
	MA-053	Update state and local floodplain management policy to be consistent with FEMA requirements for maintaining eligibility for NFIP participation and federal financial assistance.
	MA-057	Encourage multi-jurisdictional and regional partnerships on flood planning and improve agency coordination on flood management activities, including operation and maintenance, repair, and restoration
	MA-058	Develop State criteria and processes for urban flood protection
	New MAs Under Consideration	<ul style="list-style-type: none"> Develop criteria for flood protection outside urban areas. Update Title 23 standards. Clarify responsibilities for all agencies of all local, regional, State, and federal.
Finance & Revenue	MA-059	Increase funding for flood management projects by leveraging Federal funding.
	MA-060	Leverage funding from multiple projects to improve cost- effectiveness and efficiency of flood management projects.
	MA-061	Create a bank or other financial mechanism that pre-funds both O&M and mitigation activities.
	MA-062	Explore alternative funding for O&M and new flood management improvements.
	MA-082	Compensate rural areas for accepting lesser flood protection than urban areas.
	New MAs Under Consideration	<ul style="list-style-type: none"> Establish a methodology for evaluating benefits and costs on a systemwide basis to support economic justification for projects in all community settings. Create a strategic pooled money account the pre-funds avoidance/mitigation solutions for operation and maintenance impacts on current and future flood control structures. Create a strategic pooled money account that could provide funds for land stewardship activities at current and future flood-related mitigation areas over perpetuity. Create a strategic pooled money account that provides funds and consultation assistance to agencies that have operation and maintenance responsibilities.